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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/778,960	02/08/2001	Vesa Lehtovirta	2380-207	5814
23117 7590 10/03/2007 NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR			EXAMINER	
			IQBAL, KHAWAR	
ARLINGTON,	VA 22203		ART UNIT	PAPER NUMBER
			2617	
•				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
نم <sup>ن ه</sup>	09/778,960	LEHTOVIRTA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Khawar Iqbal	2617				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>03</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 06 Ju	1) Responsive to communication(s) filed on <u>06 July 2007</u> .					
,						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-45 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-45 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.	·				
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 2.	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)						
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

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### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7-6-07 has been entered.

# Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted prior art (background of the invention) in view of Streter (6456858).

Regarding claim 1 Admitted prior art (background of the invention) teaches for use in communication system where connections are established between an external network and users of mobile radio subscriber units by way of a radio access network and each established connection is handled by an associated data processing circuit, a method comprising (page 5 line 19-page 7 line 8):

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detecting a failure in a data processing circuit indicating that the data processing circuit is not functioning and thus can no longer handle established connections (page 5 line 19-page 7 line 8); wherein each mobile radio user connection is active and ongoing, is associated with one or more radio access bearers, and carries information between the mobile radio subscriber unit user and another communicating entity coupled to the external network (page 5 line 19-page 7 line 8). Admitted prior art (background of the invention) does not specifically teach identifying one or more established mobile radio subscriber unit connections being handled by the failed data processing circuit and sending a message identifying the one or more identified mobile radio subscriber unit connections.

In an analogous art, Streter teaches identifying one or more established mobile radio subscriber unit connections being handled by the failed data processing circuit and sending a message identifying the one or more identified mobile radio subscriber unit connections (col. 10, lines 23-46,col. 11, line 30-col. 12, line 4). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Admitted prior art by specifically adding a features identifies the subscriber units affected by the detected failure along with the connections affected by the failure for the purpose of improves accuracy an performance for providing connections and resources to remain intact and functioning.

Regarding claim 15 Admitted prior art (background of the invention) teaches for use in communication system where connections are established between an external network and users of radio subscriber units by way of a radio access network and each

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established connection is controlled by an associated data processing device, a method comprising (page 5 line 19-page 7 line 8):

detecting a failure in a data processor device in a node where the failed data processing device is no longer functional and thus can no longer control any established connections (page 5 line 19-page 7 line 8), and

wherein each radio user connection is active and ongoing, is associated with one or more radio access bearers, and carries information between the mobile radio user and another communicating entity coupled to the external network (page 5 line 19-page 7 line 8). Admitted prior art (background of the invention) does not specifically teach identifying one or more established mobile radio subscriber unit connections being handled by the failed data processing circuit and sending a message identifying the one or more identified mobile radio subscriber unit connections.

In an analogous art, Streter teaches sending a message identifying the failed data processing device to one or more other nodes, wherein the one or more other nodes release radio subscriber unit connections associated with the identified failed data processing device (col. 10, lines 23-46,col. 11, line 30-col. 12, line 4). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Admitted prior art by specifically adding a features identifies the subscriber units affected by the detected failure along with the connections affected by the failure for the purpose of improves accuracy an performance for providing connections and resources to remain intact and functioning.

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Regarding claim 21 Admitted prior art (background of the invention) teaches for use in radio communications system providing communications between an external network and radio units, a radio access network that establishes connections between the external network and users of the radio units, comprising: a radio network control node for communicating with the external network; and a radio base station node coupled to the radio network controller configured to provide a radio interface with plural radio units, wherein at least one of the nodes includes multiple data processing devices, where each established connection is controlled by an associated data processing device, and when a failure is detected in one of the data processing devices such that the failed data processing device is no longer functional and thus can no longer control any established connections, wherein each connection is active and ongoing, is associated with one or more radio access bearers, and carries information between the radio unit user and another communicating entity coupled to the external network (page 5 line 19-page 7 line 8). Admitted prior art (background of the invention) does not specifically teach the one node is configured to send a message to another of the nodes identifying one or more active and ongoing radio unit connections affected by the failure.

In an analogous art, Streter teaches the one node is configured to send a message to another of the nodes identifying one or more active and ongoing radio unit connections affected by the failure (col. 10, lines 23-46,col. 11, line 30-col. 12, line 4). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Admitted prior art by specifically adding a

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features identifies the subscriber units affected by the detected failure along with the connections affected by the failure for the purpose of improves accuracy an performance for providing connections and resources to remain intact and functioning.

Regarding claim 34 Admitted prior art (background of the invention) teaches for use in providing communication connections between an external network and a user of a mobile subscriber unit, a network node communicating with one or more network nodes, comprising:

multiple data processing devices for controlling established connections, a controller configured to perform the following tasks: detect a failure in the one of the data processing devices such that the failed data processing device is no longer functional and thus can no longer control any established connections; determine one or more active and ongoing mobile subscriber unit

connections affected by the detected failure; and wherein each mobile subscriber unit connection is active and ongoing, is associated with one or more radio access bearers, and carries information between the mobile subscriber unit user and another communication entity coupled to the external network (page 5 line 19-page 7 line 8). Admitted prior art (background of the invention) does not specifically teach send a message to one or more other network nodes identifying the one or more affected mobile subscriber unit connections.

In an analogous art, Streter teaches send a message to one or more other network nodes identifying the one or more affected mobile subscriber unit connections.

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(col. 10, lines 23-46,col. 11, line 30-col. 12, line 4). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Admitted prior art by specifically adding a features identifies the subscriber units affected by the detected failure along with the connections affected by the failure for the purpose of improves accuracy an performance for providing connections and resources to remain intact and functioning.

Regarding claim 43 Admitted prior art (background of the invention) teaches for use in a communication system where connections are established between an external network and users of radio subscriber units by way of a radio access network and each established connection is handled by one of multiple data processing circuits in a radio access node, apparatus comprising:

means for determining one or more active and ongoing radio subscriber unit connections affected by a failure detected in one of the data processing circuits indicating that the data processing circuit is not functioning and thus can no longer handle established connections, and wherein each established radio subscriber unit connection is active and ongoing, is associated with one or more radio access bearers, and carries information between the radio subscriber unit user and another communicating entity coupled to the external network(page 5 line 19-page 7 line 8). Admitted prior art (background of the inventic.1) does not specifically teach means for sending a message identifying the one or more affected established radio subscriber unit connections that can no longer be handled by the failed data processing device.

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In an analogous art, Streter teaches means for sending a message identifying the one or more affected established radio subscriber unit connections that can no longer be handled by the failed data processing device (col. 10, lines 23-46,col. 11, line 30-col. 12, line 4). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Admitted prior art by specifically adding a features identifies the subscriber units affected by the detected failure along with the connections affected by the failure for the purpose of improves accuracy an performance for providing connections and resources to remain intact and functioning.

Regarding claims 2,22,35,44 Admitted prior art (background of the invention), Streter teaches releasing the one or more affected mobile radio subscriber unit connections identified in the message (page 5 line 19-page 7 line 8).

Regarding claims 3,23,36,45 Admitted prior art (background of the invention), Streter teaches maintaining one or more mobile radio subscriber connections not determined to be affected by the detected failure (page 5 line 19-page 7 line 8).

Regarding claims 4,24,36 Admitted prior art (background of the invention), Streter teaches maintaining a signaling connection associated with a mobile radio subscriber unit affected by the detected failure (page 5 line 19-page 7 line 8).

Regarding claims 5,16,25,37 Admitted prior art (background of the invention),

Streter teaches wherein the mobile radio subscriber unit uses plural connections during
a communications session (page 5 line 19-page 7 line 8).

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Regarding claims 6,19,26 Admitted prior art (background of the invention),

Streter teaches generating a list identifying the one or more mobile radio subscriber
units affected by the detected failure and one or more subscriber unit connections
affected by the detected failure, and wherein the message includes the list (page 5 line
19-page 7 line 8).

Regarding claims 7,20,27,38 Streter teaches generating a list identifying the one or more mobile radio subscriber units affected by the detected failure without identifying radio subscriber unit connections, and releasing all mobile radio subscriber unit connections associated with the one or more subscriber units in the list (page 5 line 19-page 7 line 8).

Regarding claims 8,18,28,39 Admitted prior art (background of the invention), Streter teaches indicating in the list whether a signaling connection associated with a mobile radio subscriber unit affected by the detected failure should be released or maintained (page 5 line 19-page 7 line 8).

Regarding claims 9,17,29,40 Admitted prior art (background of the invention),

Streter teaches wherein the list includes identifiers for the one or more mobile radio
subscriber units affected by the detected failure and for the one or more subscriber unit
connections affected by the detected failure (page 5 line 19-page 7 line 8).

Regarding claims 10,30,41 Admitted prior art (background of the invention), Streter teaches wherein when the list does not include connection identifiers, all connections for a mobile radio subscriber unit are released.

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Regarding claims 11,31,42 Admitted prior art (background of the invention),

Streter teaches wherein the message is sent to one or more other nodes (page 5 line 19-page 7 line 8).

Regarding claims 12,32 Admitted prior art (background of the invention), Streter teaches wherein the node is one of an external network node, a core network node, an access network node, and a mobile radio subscriber unit (page 5 line 19-page 7 line 8).

Regarding claims 13,33 Admitted prior art (background of the invention), Streter teaches wherein the message is a control signaling message (page 5 line 19-page 7 line 8).

Regarding claim 14 Admitted prior art (background of the invention), Streter teaches wherein the message is sent using an existing access network control signaling message (page 5 line 19-page 7 line 8).

### Response to Arguments

4. Applicant's arguments with respect to claims 1-45 have been considered but are moot in view of the new ground(s) of rejection.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khawar Iqbal whose telephone number is 571-272-7909.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on (571) 272-7495. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.